

#5

OIEP

RAW SEQUENCE LISTING

DATE: 10/04/2001

PATENT APPLICATION: US/09/883,727A

TIME: 11:23:57

Input Set : A:\00-33.SEQ.TXT

Output Set: N:\CRF3\10042001\I883727A.raw

4 <110> APPLICANT: West, Robert R.
5 Sheppard, Paul O.
6 Fox, Brian
8 <120> TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of
9 Complement C1s
11 <130> FILE REFERENCE: 00-33
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/883,727A
C--> 13 <141> CURRENT FILING DATE: 2001-09-18
13 <160> NUMBER OF SEQ ID NOS: 140
15 <170> SOFTWARE: FastSEQ for Windows Version 3.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 122
19 <212> TYPE: PRT
20 <213> ORGANISM: Haementaria ghilianii
22 <400> SEQUENCE: 1
23 Ala Lys Lys Lys Leu Pro Lys Cys Gln Lys Gln Glu Asp Cys Gly Ser
24 1 5 10 15
25 Trp Asp Leu Lys Cys Asn Asn Val Thr Lys Lys Cys Glu Cys Arg Asn
26 20 25 30
27 Gln Val Cys Gly Arg Gly Cys Pro Lys Glu Arg Tyr Gln Arg Asp Lys
28 35 40 45
29 Tyr Gly Cys Arg Lys Cys Leu Cys Lys Gly Cys Asp Gly Phe Lys Cys
30 50 55 60
31 Arg Leu Gly Cys Thr Tyr Gly Phe Lys Thr Asp Lys Lys Gly Cys Glu
32 65 70 75 80
33 Ala Phe Cys Thr Cys Asn Thr Lys Glu Thr Ala Cys Val Asn Ile Trp
34 85 90 95
35 Cys Thr Asp Pro Tyr Lys Cys Asn Pro Glu Ser Gly Arg Cys Glu Asp
36 100 105 110
37 Pro Asn Glu Glu Tyr Glu Tyr Asp Tyr Glu
38 115 120
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 10
42 <212> TYPE: PRT
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: C1s exosite binding moiety
48 <400> SEQUENCE: 2
49 Pro Asn Glu Glu Tyr Glu Tyr Asp Tyr Glu
50 1 5 10
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 10
54 <212> TYPE: PRT
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: C1s exosite binding moiety
60 <221> NAME/KEY: MUTAGEN

ENTERED

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Input Set : A:\00-33.SEQ.TXT
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61 <222> LOCATION: (5)...(5)
62 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
64 <400> SEQUENCE: 3
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66 1 5 10
68 <210> SEQ ID NO: 4
69 <211> LENGTH: 10
70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: C1s exosite binding moiety
76 <221> NAME/KEY: MUTAGEN
77 <222> LOCATION: (7)...(7)
78 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
80 <400> SEQUENCE: 4
W--> 81 Pro Asn Glu Glu Tyr Glu Xaa Asp Tyr Glu
82 1 5 10
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 10
86 <212> TYPE: PRT
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: C1s exosite binding moiety
92 <221> NAME/KEY: MUTAGEN
93 <222> LOCATION: (9)...(9)
94 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
96 <400> SEQUENCE: 5
W--> 97 Pro Asn Glu Glu Tyr Glu Tyr Asp Xaa Glu
98 1 5 10
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 10
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: C1s exosite binding moiety
108 <221> NAME/KEY: MUTAGEN
109 <222> LOCATION: (5)...(5)
110 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
112 <221> NAME/KEY: MUTAGEN
113 <222> LOCATION: (7)...(7)
114 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
116 <400> SEQUENCE: 6
W--> 117 Pro Asn Glu Glu Xaa Glu Xaa Asp Tyr Glu
118 1 5 10
120 <210> SEQ ID NO: 7
121 <211> LENGTH: 10
122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:

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126 <223> OTHER INFORMATION: C1s exosite binding moiety ✓
 128 <221> NAME/KEY: MUTAGEN
 129 <222> LOCATION: (5)...(5)
 130 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
 132 <221> NAME/KEY: MUTAGEN
 133 <222> LOCATION: (9)...(9)
 134 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
 136 <400> SEQUENCE: 7
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 138 1 5 10
 140 <210> SEQ ID NO: 8
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 142 <212> TYPE: PRT
 143 <213> ORGANISM: Artificial Sequence
 145 <220> FEATURE:
 146 <223> OTHER INFORMATION: C1s exosite binding moiety ✓
 148 <221> NAME/KEY: MUTAGEN
 149 <222> LOCATION: (7)...(7)
 150 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
 152 <221> NAME/KEY: MUTAGEN
 153 <222> LOCATION: (9)...(9)
 154 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
 156 <400> SEQUENCE: 8
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 158 1 5 10
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 161 <211> LENGTH: 10
 162 <212> TYPE: PRT
 163 <213> ORGANISM: Artificial Sequence
 165 <220> FEATURE:
 166 <223> OTHER INFORMATION: C1s exosite binding moiety ✓
 168 <221> NAME/KEY: MUTAGEN
 169 <222> LOCATION: (5)...(5)
 170 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
 172 <221> NAME/KEY: MUTAGEN
 173 <222> LOCATION: (7)...(0) ✓
 174 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
 176 <221> NAME/KEY: MUTAGEN
 177 <222> LOCATION: (9)...(9)
 178 <223> OTHER INFORMATION: Xaa = Phe-(p-CH₂)SO₃H
 180 <400> SEQUENCE: 9
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 182 1 5 10
 184 <210> SEQ ID NO: 10
 185 <211> LENGTH: 10
 186 <212> TYPE: PRT
 187 <213> ORGANISM: Artificial Sequence
 189 <220> FEATURE:
 190 <223> OTHER INFORMATION: C1s exosite binding moiety

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Input Set : A:\00-33.SEQ.TXT

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192 <221> NAME/KEY: MUTAGEN
193 <222> LOCATION: (5)...(5)
194 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
196 <400> SEQUENCE: 10
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198 1 5 10
200 <210> SEQ ID NO: 11
201 <211> LENGTH: 10
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: C1s exosite binding moiety
208 <221> NAME/KEY: MUTAGEN
209 <222> LOCATION: (7)...(7)
210 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
212 <400> SEQUENCE: 11
W--> 213 Pro Asn Glu Glu Tyr Glu Xaa Asp Tyr Glu
214 1 5 10
216 <210> SEQ ID NO: 12
217 <211> LENGTH: 10
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: C1s exosite binding moiety
224 <221> NAME/KEY: MUTAGEN
225 <222> LOCATION: (9)...(9)
226 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
228 <400> SEQUENCE: 12
W--> 229 Pro Asn Glu Glu Tyr Glu Tyr Asp Xaa Glu
230 1 5 10
232 <210> SEQ ID NO: 13
233 <211> LENGTH: 10
234 <212> TYPE: PRT
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: C1s exosite binding moiety
240 <221> NAME/KEY: MUTAGEN
241 <222> LOCATION: (5)...(5)
242 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
244 <221> NAME/KEY: MUTAGEN
245 <222> LOCATION: (7)...(7)
246 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
248 <400> SEQUENCE: 13
W--> 249 Pro Asn Glu Glu Xaa Glu Asp Tyr Glu
250 1 5 10
252 <210> SEQ ID NO: 14
253 <211> LENGTH: 10
254 <212> TYPE: PRT
255 <213> ORGANISM: Artificial Sequence

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257 <220> FEATURE:
258 <223> OTHER INFORMATION: C1s exosite binding moiety
260 <221> NAME/KEY: MUTAGEN
261 <222> LOCATION: (5)...(5)
262 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
264 <221> NAME/KEY: MUTAGEN
265 <222> LOCATION: (9)...(9)
266 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
268 <400> SEQUENCE: 14
W--> 269  Pro Asn Glu Glu Xaa Glu Tyr Asp Xaa Glu
      270    1          5          10
272 <210> SEQ ID NO: 15
273 <211> LENGTH: 10
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: C1s exosite binding moiety ✓
280 <221> NAME/KEY: MUTAGEN
281 <222> LOCATION: (7)...(7)
282 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
284 <221> NAME/KEY: MUTAGEN
285 <222> LOCATION: (9)...(9)
286 <223> OTHER INFORMATION: Xaa = sulfated tyrosine ✓
288 <400> SEQUENCE: 15
W--> 289  Pro Asn Glu Glu Tyr Glu Xaa Asp Xaa Glu
      290    1          5          10
292 <210> SEQ ID NO: 16
293 <211> LENGTH: 10
294 <212> TYPE: PRT
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
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300 <221> NAME/KEY: MUTAGEN
301 <222> LOCATION: (5)...(5)
302 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
304 <221> NAME/KEY: MUTAGEN
305 <222> LOCATION: (7)...(7)
306 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
308 <221> NAME/KEY: MUTAGEN
309 <222> LOCATION: (9)...(9)
310 <223> OTHER INFORMATION: Xaa = sulfated tyrosine ✓
312 <400> SEQUENCE: 16
W--> 313  Pro Asn Glu Glu Xaa Glu Xaa Asp Xaa Glu
      314    1          5          10
316 <210> SEQ ID NO: 17
317 <211> LENGTH: 10
318 <212> TYPE: PRT
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/883,727A

DATE: 10/04/2001

TIME: 11:23:58

Input Set : A:\00-33.SEQ.TXT

Output Set: N:\CRF3\10042001\I883727A.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:753 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48

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L:985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:1033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52